

PATENT APPLICATION

for:

"System and method for improving the productivity of a
welding shop"

in the name of:

L'AIR LIQUIDE, SOCIETE ANONYME A DIRECTOIRE ET CONSEIL
DE SURVEILLANCE POUR L'ETUDE ET L'EXPLOITATION DES
PROCEDES GEORGES CLAUDE

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ABSTRACT

Method of managing or controlling an electric arc welding shop in which several welding torches (10) are employed each fed with at least one consumable wire (11), each consumable wire (11) moving with a wire speed (V) and being subjected to an electrical current of intensity (I), in which, for each torch (10), at least one wire speed value (V) representative of the average speed at which each wire (11) feeds each torch (10) over a given period (T) is determined by means of a speed sensor or at least one intensity value (I) of the current representative of the average current to which each wire (11) is subjected over the given period (T) is determined by means of a current sensor, and at least one productivity parameter chosen from the duty factor (DF) and the deposition rate (DR) for each torch (10) of the shop and/or optionally the average value of these parameters, for all the torches of the shop, is determined from at least each speed value (V) of the wire (11) or each intensity value (I) of the electrical current obtained in step (a). System for implementing the method.

Single figure